***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW22: Transformations Review

**Geometry**

Level 1

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| 1. Predict the quadrant that A’ will be located given that A(-5,2) is rotated 90° clockwise. | 2. Predict the quadrant that B’ will be located given that B(6,-3) is reflected across y =x. |
| 1. Predict the quadrant that C’ will be located given that C(-10,-2) is rotated 90° clockwise. | 1. Predict the quadrant that D’ will be located given that D(3,5) is reflected across x = -3. |
| 1. Describe Parallel Lines. What transformation occurred to create parallel lines? | |
| 1. Identify the student error and explain how to correct the error.  |  | | --- | | Directions: Reflect the point N over the line y = x.  **Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-10-07 at 7.42.02 PM.png** | | |

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| 1. Find the coordinates of A’ if A(-5,2) is rotated 90° clockwise. | 1. Find the coordinates of B’ if B(6,-3) is reflected across y =x. |
| 1. Find the coordinates of C’ if C(-10,-2) is rotated 90° clockwise. | 1. Find the coordinates of D’ if D(3,5) is reflected across x = -3. |
| 1. Find the coordinates of P’ if P(4,3) is translated horizontally 1 unit right and vertically 8 units down. | 1. Find the coordinates of S’ if S(-2,5) is rotated 180° about the origin. |
| 1. Find the coordinates of U’ if U(-2,1) is reflected across x = 1. | 1. Find the coordinates of Z’ if Z(2,-2) is reflected across y = x. |

Level 2

Level 3

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| 1. Jenny claims that J’(4,-5) is the image of J(5,4) after a 90° clockwise rotation about the origin. Do you agree or disagree with the student? Justify your answer using claim, evidence, and reasoning. | 1. Jackie claims that R’(0,-2) is the image of J(-2,0) after a reflection across the line y = x. Do you agree or disagree with the student? Justify your answer using claim, evidence, and reasoning. |
| 1. Bryan claims that triangle M’(-3,1)Q’(-2,4)H’(1,0) is the image of the triangle M(1,0)Q(3,3)H(5,-1) after a translation 4 units right and 1 unit down. Do you agree or disagree with the student? Justify your answer using claim, evidence, and reasoning. | |
| 1. if G(x)=-2x+4.   (a) What is the equation of a line that is parallel and goes through the point (1,2)?  (b) What is the equation of a line that is perpendicular and goes through the point (1,2)? | |
| 1. . If H(x)= 4/5 x+2:   (a) translate the line down 6 units- what is the new equation?  (b) Rotate the line about the origin- what is the new equation? | |
| 1. What transformation occurred to create the image below? **Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-10-08 at 5.23.51 AM.png** | 1. Perform two transformations of your choice on the figure below. **Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-10-08 at 5.24.22 AM.png** |

**Exit Ticket: DO NOT COMPLETE UNTIL INSTRUCTED TO DO SO BY TEACHER.**Directions: Complete the problems below on a half sheet of paper. Write your full name and period.

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| 1. On a scale of 1-5, How do you feel about tomorrow’s quiz? Explain. | 1. Which of the following do you feel most confident about? Which do you feel you still have a lot of questions about? Explain. - Transformations - Reflections over horizontal and vertical lines - Reflections over y = x  - Rotations in the coordinate plane |